

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P754594

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR3070959035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7999.8 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

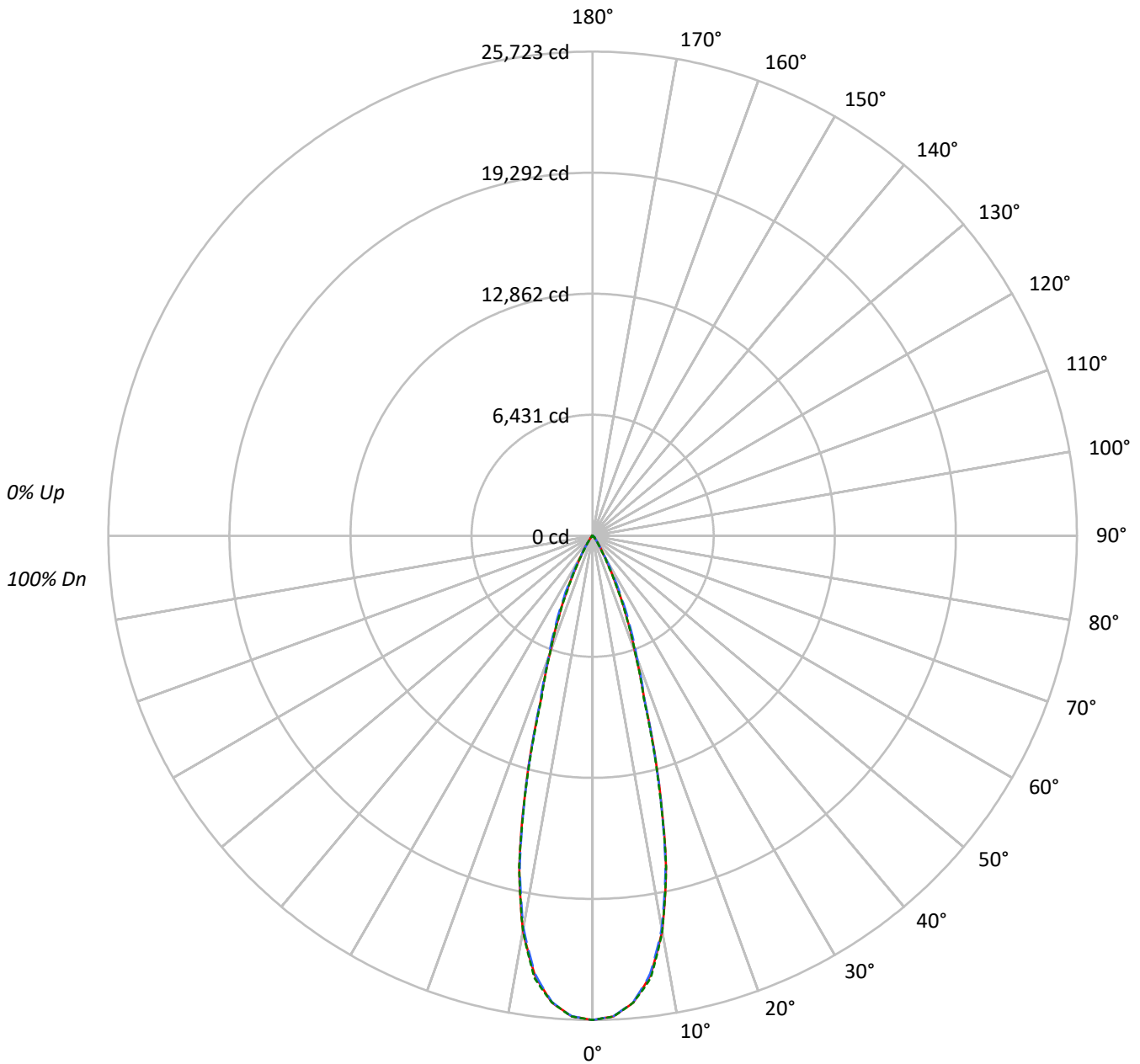


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1968933	1968933	1968933
5°	1912412	1910176	1912512
10°	1656435	1644761	1656046
15°	1080747	1074939	1069534
20°	537405	557565	536680
25°	270708	305267	265159
30°	108386	118100	94430
35°	50272	48151	40358
40°	21703	24101	20444
45°	15306	18998	15447
50°	5263	13837	5561
55°	3029	5725	3203
60°	2128	2511	2128
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18998 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2262.0	28.3
10°-20°	3642.9	45.5
20°-30°	1574.2	19.7
30°-40°	358.8	4.5
40°-50°	123.2	1.5
50°-60°	30.1	0.4
60°-70°	7.8	0.1
70°-80°	0.8	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7479.1	93.5
0°-40°	7837.9	98.0
0°-60°	7991.1	99.9
0°-90°	7999.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7999.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25723	25723	25723	25723	25723	
5°	24890	24866	24860	24912	24891	2264
15°	13638	13474	13565	13521	13497	3652
25°	3205	3326	3614	3242	3140	1534
35°	538	549	515	512	432	365
45°	141	176	176	176	143	100
55°	23	24	43	25	24	22
65°	8	8	8	8	8	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25723.1	25723.1	25723.1	25723.1	25723.1
2.5°	25552.6	25534.9	25545.0	25557.7	25562.7
5°	24889.6	24865.6	24860.5	24912.3	24890.9
7.5°	23552.2	23518.1	23466.3	23583.7	23693.6
10°	21311.7	21273.9	21161.5	21217.0	21306.7
12.5°	18004.2	17881.7	17879.1	18055.9	18031.9
15°	13638.3	13474.1	13565.0	13520.8	13496.8
17.5°	9171.3	9108.2	9229.4	9192.8	9034.9
20°	6597.5	6613.9	6845.0	6728.8	6588.6
22.5°	4814.2	4873.6	5147.7	4848.3	4738.5
25°	3205.3	3326.5	3614.5	3241.9	3139.6
27.5°	1971.4	2027.0	2318.7	1946.2	1890.6
30°	1226.3	1198.5	1336.2	1146.7	1068.4
32.5°	804.5	769.1	813.3	730.0	666.8
35°	538.0	549.4	515.3	511.5	431.9
37.5°	335.9	386.5	341.0	363.7	277.8
40°	217.2	280.4	241.2	266.5	204.6
42.5°	178.1	216.0	198.3	210.9	181.9
45°	141.4	175.5	175.5	175.5	142.7
47.5°	78.3	117.5	150.3	120.0	83.4
50°	44.2	59.4	116.2	61.9	46.7
52.5°	30.3	34.1	79.6	35.4	31.6
55°	22.7	24.0	42.9	25.3	24.0
57.5°	17.7	18.9	22.7	18.9	17.7
60°	13.9	13.9	16.4	15.2	13.9
62.5°	10.1	10.1	11.4	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.1	5.1	5.1	5.1
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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